CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau





(43) International Publication Date 29 August 2002 (29.08.2002)

PCT

(10) International Publication Number WO 02/067273 A1

- (51) International Patent Classification⁷: H01B 1/12, 1/20, C08G 75/00, H01L 23/14
- (21) International Application Number: PCT/US02/04679
- (22) International Filing Date: 15 February 2002 (15.02.2002)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

 60/269,606
 16 February 2001 (16.02.2001)
 US

 60/298,174
 13 June 2001 (13.06.2001)
 US

 09/999,171
 30 November 2001 (30.11.2001)
 US

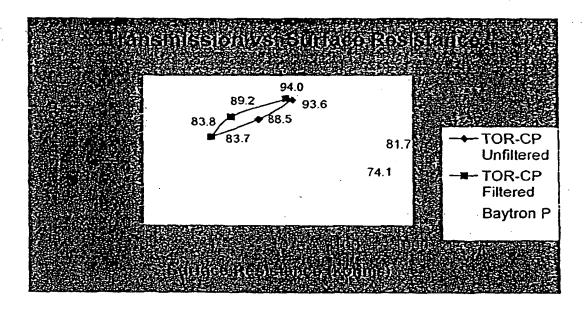
(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:

US Not furnished (CIP)
Filed on Not furnished

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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

[Continued on next page]

(54) Title: COMPOSITIONS PRODUCED BY SOLVENT EXCHANGE METHODS AND USES THEREOF



(57) Abstract: Disclosed are compositions formed by a method for exchanging solvent in a mixture that includes water and an optionally substituted thiophene. Also disclosed are methods for making and using such compositions.





CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE. I.S, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB. GR. IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BE BL CE, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE. SN. TD, TG).

Published:

- with international search report
- (48) Date of publication of this corrected version: 31 October 2002
- (15) Information about Correction: see PCT Gazette No. 44/2002 of 31 October 2002, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



INTERNATIONAL SEARCH REPORT

1		
enational	application	No

PCT/US02/04679

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H01B 1/12, 1/20; C08G 75/00; H01L 23/14						
IPC(7) : H01B 1/12, 1/20; C08G 75/00; H01L 23/14 US CL : 252/500, 301.32; 528/373, 377, 378; 257/82; 340/825.82; 362/800						
	International Patent Classification (IPC) or to both nat	ional classi	fication and IPC			
	DS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 252/500, 301.32; 528/373, 377, 378; 257/82; 340/825.82; 362/800						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST (search terms include: polythiophene, solvent; LED, conductive)						
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap			Relevant to claim No.		
X 	US 5,766,515 A (JONAS ET AL) 16 June 1998, see lines 30-35; Col 4, lines 53-57; examples 1-2.	Abstract,	Col 2, lines 1-16; Col 3,	41-43, 62-65, 117-121, 140-141		
Α				1-3, 30-34		
х	US 5,998,014 A (MULLER ET AL) 7 December 19 example 1.	99, see Ab	stract; Col 2, lines 44-56;	41-43, 62-65. 117-121, 140-141		
Α.	US 5,401,537 A (KOCHEM ET AL) 28 March 1995, see Abstract; examples. 1-3, 30		1-3, 30-34, 41-43, 62- 65, 117-121, 140-141			
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Funher	documents are listed in the continuation of Box C.		See patent family annex.			
• s	pecial categories of cited documents:	"T"	later document published after the int date and not in conflict with the appli	ternational filing date or priority ication but cited to understand the		
	t defining the general state of the art which is not considered to be		principle or theory underlying the inv	vention		
"E" earlier ap	oplication or patent published on or after the international filing date	-x-	document of particular relevance; the considered novel or cannot be consid when the document is taken alone	e claimed invention cannot be ered to involve an inventive step		
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"O" documen	t referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in t			
	"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed					
1	Date of the actual completion of the international search Date of mailing of the international search report 14 JUN 2002					
	2 (15.05.2002) ailing address of the ISA/US	Authoriz	ed offder			
Con	nmissioner of Patents and Trademarks	1 554	lident			
Box PCT Washington, D.C. 20231						
Facsimile No. (703)305-3230 Telephone No. 703 308-0661						
Corp. DCT/IC	A /210 (second sheet) (July 1008)					



Intern	application No.
PCT/US02/	04679

Box	I Obse	ervations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)	
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.		Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
2.		Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:	
3.	\boxtimes	Claim Nos.: 4-29, 35-40, 44-61, 66-116, 122-139, 142-146 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box	II Ol	oservations where unity of invention is lacking (Continuation of Item 2 of first sheet)	
This	Internat	ional Searching Authority found multiple inventions in this international application, as follows:	
1.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.	
2.		As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3.		As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:	
4.		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Rem	ark on	Protest The additional search fees were accompanied by the applicant's protest.	
		No protest accompanied the payment of additional search fees.	

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)